SW USB Series

TWO AND FOUR INPUT USB SWITCHERS





The Extron SW USB Series of two- and four-input USB switchers allows switching between multiple host devices and multiple USB peripherals. Integration-oriented features include: port status indication, RS-232 pass-through, front panel security lockout, and multiple control points. The SW USB Series is ideal for applications such as KVM, interactive whiteboard, and annotator-based applications in education, judicial, or corporate settings, or wherever reliable USB switching is needed.

- ▶ USB 2.0 compatible
- Four port output hub with 5V, 500mA available on each output
- **▶ Port Status LEDs**
- ▶ Multiple control points
- ▶ RS-232 pass-through
- ▶ Front panel security lockout
- Host and Peripheral Emulation Mode -SW4 USB Plus model
- Rack-mountable, 1U half rack width metal enclosure



DESCRIPTION

The **SW USB Series** are two- and four-input USB switchers that provide integrator-friendly solutions for implementing USB 2.0 compatible switching in professional AV environments. A number of specialized features help further streamline integration, such as: port status indication, RS-232 pass-through, front panel security lockout, and multiple control points.

All of the SW USB Series switchers act as active USB hubs, supplying 5V, 500mA to attached devices, per USB specification. In addition, the switchers are USB 2.0 compatible, and are backwardly-compatible with all previous USB data rate specifications, including low speed 1.5 Mbps, full speed 12 Mbps, and hi-speed 480 Mbps.

RS-232 pass-through reduces control port requirements by processing SIS commands within the SW USB while also passing them through to other controllable Extron audio and video switchers.

The SW4 USB Plus model features Host and Peripheral Emulation Mode, which provides "keep alive" functionality by continuously mimicking host and keyboard/mouse device communications within the switcher. This emulation eliminates the need for enumeration, and reduces the chance of failed device communications throughout the switching process.

The SW USB Series incorporates rack mountable, 1U, half rack width enclosures for simplified integration. All models include an external, universal power supply for worldwide power compatibility.

FEATURES

- ▶ USB 2.0 compatible Supports 480 Mbps high speed communications and is backwards compatible with all prior USB versions.
- ▶ Four port output hub with 5V, 500mA available on each output Allows simultaneous connection to multiple peripheral devices such as mass storage devices, keyboards, mice, or other HID Human Interface Devices. Attached devices can be powered via the 5V, 500mA current provided on each output.
- Port Status LEDs Provides visual indication of port activity for enumerated peripherals and all connected and active host devices.
- Multiple control points Operation via front panel, RS-232, and contact closure offers integration flexibility into a variety of control environments.
- ▶ RS-232 pass-through Reduces RS-232 control port requirements by processing SIS commands within the SW USB while also passing them through to other controllable Extron video switchers.
- ▶ Front panel security lockout Prevents unauthorized use in non-secure environments. In lockout mode, a special button combination is required to operate the switcher from the front panel.
- ▶ Rack-mountable 1U, half rack width metal enclosure
- Energy-efficient external universal power supply included Provides worldwide compatibility, low power consumption, and reduced operating costs.

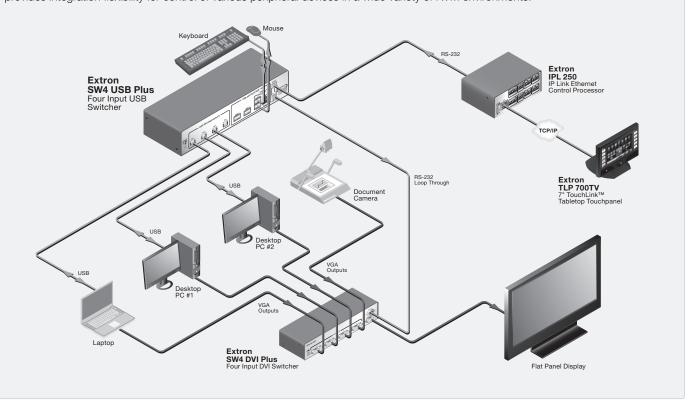
SW4 USB PLUS - UNIQUE FEATURE

Host and Perifpheral Emulation - Offers increased system reliability by emulating uninterrupted connection between host and keyboard/mouse devices. This selectable feature enables devices to "keep alive" when switching between inputs.



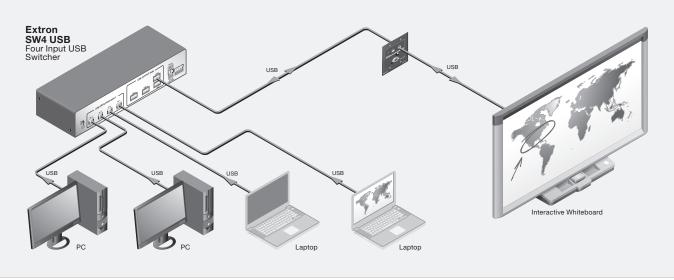
SW USB for Switching and Control

Extron SW USB switchers provide high performance switching and centralized control for KVM - Keyboard/Video/Mouse applications. A single keyboard and mouse connected to the SW USB switcher allow access, monitoring, and control of multiple USB-enabled devices from a remote location. Control centers, help desks, and equipment rooms often incorporate this approach for efficient AV system management, enhanced security, energy savings, and to address space availability constraints within an area. The SW USB provides integration flexibility for control of various peripheral devices in a wide variety of KVM environments.



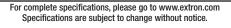
SW USB with Interactive Whiteboards

Extron SW USB switchers are well suited for implementation in interactive whiteboard or smartboard applications for both corporate and education environments. Classrooms and corporate training facilities often incorporate multiple computers in association with video projection onto the board. Information written onto the whiteboard can be electronically communicated to the host computer via USB connection for future use. SW USB Series switchers ensure that materials from laptops, desktop computers, servers, and various other USB sources are readily available for whiteboard presentation.



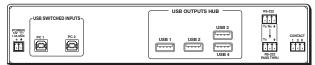
PANEL DRAWINGS

USB **USB** specification USB 2.0 compatible USB data rates Low speed (1.5 Mbps), full speed (12 Mbps), high speed (480 Mbps) **USB INPUT** Connectors SW2 LISB 2 female USB type B SW4 USB, SW4 USB Plus 4 female USB type B **USB OUTPUT** Connectors 4 female USB type A CONTROL/REMOTE — SWITCHER (1) RS-232, 3.5 mm captive screw connector, 3 pole Serial control port (1) RS-232 pass-through, 3.5 mm captive screw connector, 3 pole Baud rate and protocol 9600 baud, 8 data bits, 1 stop bit, no parity Contact closure SW2 USB (1) 3.5 mm captive screw connector, 3 pole SW4 USB, SW4 USB Plus (1) 3.5 mm captive screw connector, 5 pole Extron Simple Instruction Set (SISTM) Program control **GENERAL** External Power supply Input: 100-240 VAC, 50-60 Hz Output: 12 VDC, 1 A, 12 watts Power input requirements 12 VDC, 0.70 A Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, Temperature/humidity noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing Cooling Convection, no vents Mounting Rack mount Yes, with optional rack shelf Yes, with optional under-desk mounting kit Furniture mount Enclosure type 1.6" H x 8.6" W x 3.0" D (1U high, half rack wide) **Enclosure dimensions** (4.1 cm H x 21.8 cm W x 7.6 cm D) (Depth excludes connectors.) Product weight 2.0 lbs (0.9 kg) Shipping weight 3 lbs (2 kg) Vibration ISTA 1A in carton (International Safe Transit Association) Regulatory compliance Safety CF. c-UL. UL EMI/EMC CE, C-tick, FCC Class A, ICES, VCCI MTBF 30,000 hours Warranty 3 years parts and labor NOTE: All nominal levels are at ±10%. Model Version Description Part number SW2 USB Two Input USB 60-952-02 SW4 USB Four Input USB 60-953-02 SW4 USB Plus Four Input USB with Emulation 60-954-02





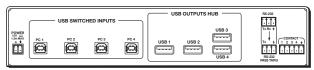
SW2 USB - Front



SW2 USB - Back



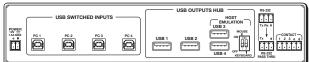
SW4 USB - Front



SW4 USB - Back



SW4 USB Plus - Front



SW4 USB Plus - Back

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